



Citywide/Open Waters LTCP Progress

Consent Order Milestone for Citywide/Open Waters LTCP is May 30, 2020.

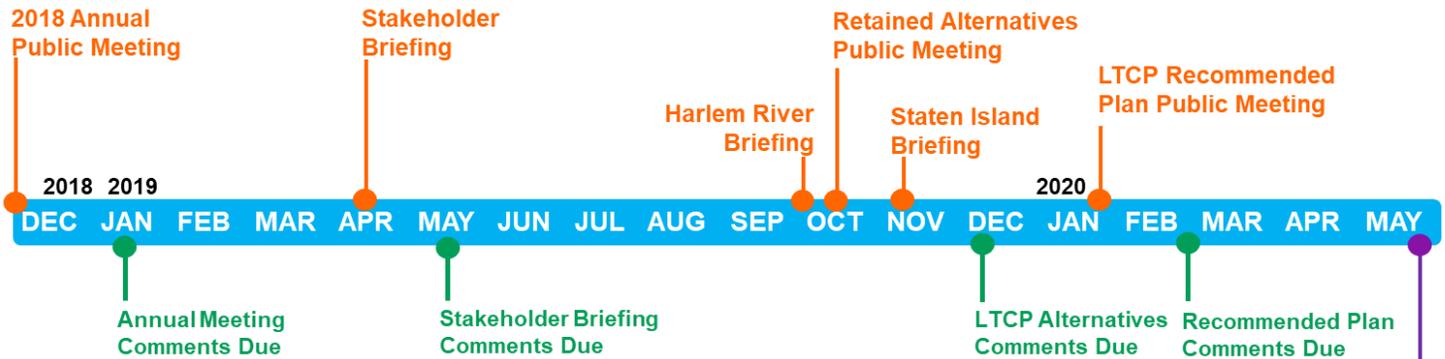
Last 30-Day Progress Highlights

Activity	April 2020 Progress Highlights
Waterbody Management	<ul style="list-style-type: none"> Continued to manage the delivery schedule for the May 2020 Citywide/Open Waters LTCP Submittal
Data Collection	<ul style="list-style-type: none"> Activity completed
Modeling	<ul style="list-style-type: none"> Completed attainment mosaics for baseline conditions, 100-percent CSO Control and the Recommended Plan for the Citywide/Open Waters LTCP Prepared the Citywide/Open Waters LTCP Appendix A, Supplemental Volume and Loadings Tables
Alternatives Development	<ul style="list-style-type: none"> Activity completed
LTCP Preparation	<ul style="list-style-type: none"> Continued to draft and review Sections of the Citywide/Open Waters LTCP
Public Participation	<ul style="list-style-type: none"> Continued to draft and review the response to public comments following Citywide/Open Waters LTCP Recommended Plan Public Meeting

LTCP Development

Activity	Near-term Look Ahead
Waterbody Management	<ul style="list-style-type: none"> Submit the May 2020 Citywide/Open Waters LTCP Submittal
Data Collection	<ul style="list-style-type: none"> Activity completed
Modeling	<ul style="list-style-type: none"> Activity completed
Alternatives Development	<ul style="list-style-type: none"> Activity completed
LTCP Preparation	<ul style="list-style-type: none"> Complete the Citywide/Open Waters LTCP
Public Participation	<ul style="list-style-type: none"> Complete the response to public comments following Citywide/Open Waters LTCP Recommended Plan Public Meeting

Public Outreach Schedule



Note: Citywide/Open Waters LTCP Kick-off Meetings (3) completed in 2018. Presentations including sampling results, baseline conditions and preliminary gap analysis are available on the DEP website.

Citywide/Open Waters LTCP Submittal to DEC (5/30)

- Complete LTCP Report
- Response to Public Comments

Schedule Milestone Status

	Sampling Program	Sampling Data to DEC	Baseline Conditions Established	Flow Monitoring	BMP Regulator Analysis	Retained Alternatives Selected	Recommended Plan Selected
Target Date	Dec 2017	Mar 2018	Apr 2018	Apr 2019	Jun 2019	Sept 2019	Jan 2020
Status	✔	✔	✔	✔	✔	✔	✔

LEGEND: ✔ = Completed ● = Under DEP Review ● = In Progress = Not Initiated



Citywide/Open Waters LTCP Progress

Consent Order Milestone for Citywide/Open Waters LTCP is March 31, 2020.

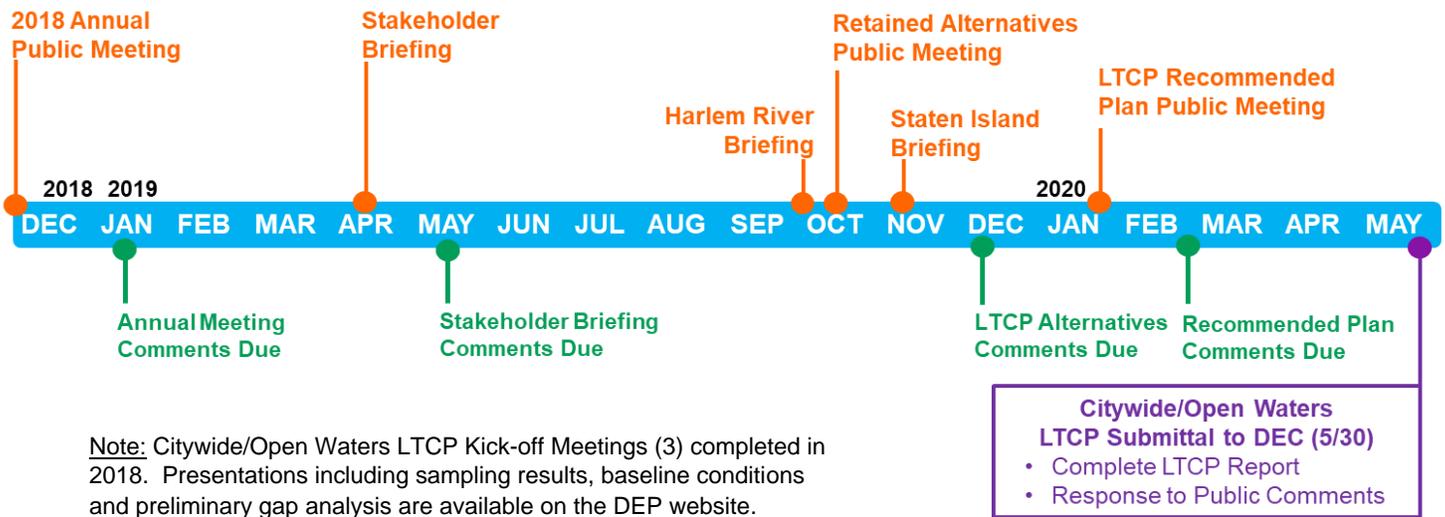
Last 30-Day Progress Highlights

Activity	March 2020 Progress Highlights
Waterbody Management	<ul style="list-style-type: none"> • Prepared Notice of Force Majeure and Modification Request for Coronavirus impacts to CSO Consent Order Milestone • Received DEC Approval of extension of the Citywide/Open Waters LTCP Submittal to May 30, 2020 • Updated the delivery schedule for May 2020 Citywide/Open Waters LTCP Submittal
Data Collection	<ul style="list-style-type: none"> • Activity completed
Modeling	<ul style="list-style-type: none"> • Performed dissolved oxygen and time to recovery modeling analysis for the Citywide/Open Waters LTCP • Continued to develop attainment mosaics for baseline conditions, 100-percent CSO Control and the Recommended Plan for the Citywide/Open Waters LTCP
Alternatives Development	<ul style="list-style-type: none"> • Activity completed
LTCP Preparation	<ul style="list-style-type: none"> • Developed Cost/Performance Curves for the Citywide/Open Waters LTCP • Continued to draft and review Sections of the Citywide/Open Waters LTCP
Public Participation	<ul style="list-style-type: none"> • Continued to draft the Meeting Summary for the Citywide/Open Waters LTCP Recommended Plan Public Meeting held January 29, 2020 • Drafted the response to public comments following Citywide/Open Waters LTCP Recommended Plan Public Meeting

LTCP Development

Activity	Near-term Look Ahead
Waterbody Management	<ul style="list-style-type: none"> Continue to manage the delivery schedule for the May 2020 Citywide/Open Waters LTCP Submittal
Data Collection	<ul style="list-style-type: none"> Activity completed
Modeling	<ul style="list-style-type: none"> Complete attainment mosaics for baseline conditions, 100-percent CSO Control and the Recommended Plan for the Citywide/Open Waters LTCP Prepare the Citywide/Open waters LTCP Appendix A, Supplemental Volume and Loadings Tables
Alternatives Development	<ul style="list-style-type: none"> Activity completed
LTCP Preparation	<ul style="list-style-type: none"> Complete drafts and reviews of Sections of the Citywide/Open Waters LTCP Update the Citywide/Open Waters LTCP Executive Summary, as necessary
Public Participation	<ul style="list-style-type: none"> Complete the Meeting Summary for the Citywide/Open Waters LTCP Recommended Plan Public Meeting held January 29, 2020 Complete the response to public comments following Citywide/Open Waters LTCP Recommended Plan Public Meeting

Public Outreach Schedule



Schedule Milestone Status

	Sampling Program	Sampling Data to DEC	Baseline Conditions Established	Flow Monitoring	BMP Regulator Analysis	Retained Alternatives Selected	Recommended Plan Selected
Target Date	Dec 2017	Mar 2018	Apr 2018	Apr 2019	Jun 2019	Sept 2019	Jan 2020
Status							

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Citywide/Open Waters LTCP Progress

Consent Order Milestone for Citywide/Open Waters LTCP is March 31, 2020.

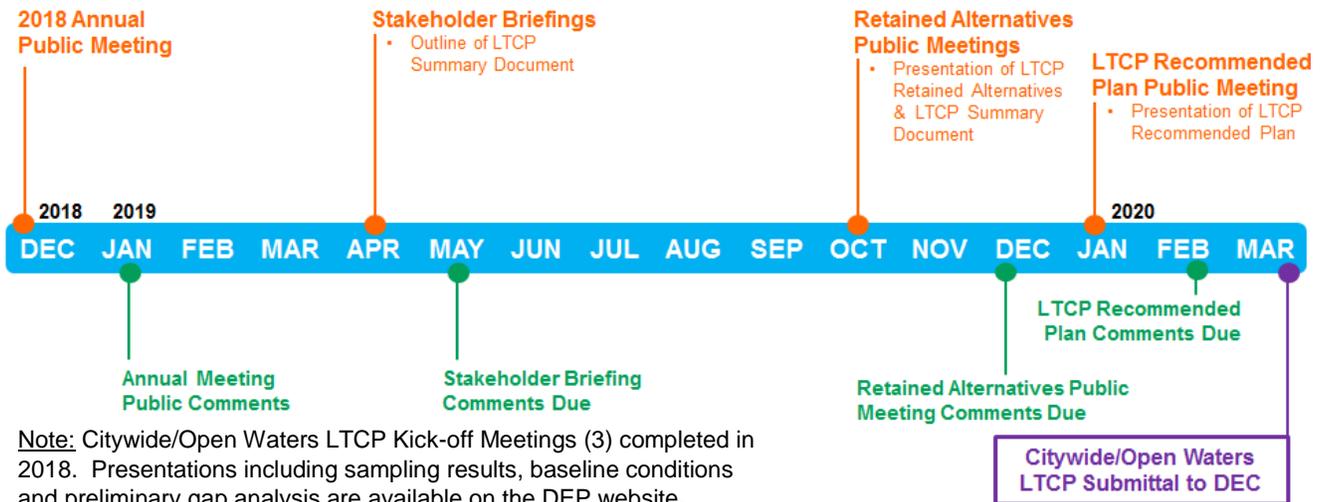
Last 30-Day Progress Highlights

Activity	February 15, 2020 Progress Highlights
Waterbody Management	<ul style="list-style-type: none"> Continued to manage schedule for March 2020 Citywide/Open Waters LTCP Submittal Continued coordination with New Jersey (PVSC) LTCP Program
Data Collection	<ul style="list-style-type: none"> Activity completed
Modeling	<ul style="list-style-type: none"> Completed the modeling evaluations for Citywide/Open Waters LTCP retained alternatives Continued the modeling evaluations for the Citywide/Open Waters LTCP Recommended Plan Continued the 10-yr model runs for the Citywide/Open Waters LTCP Baseline Conditions and the Recommended Plan
Alternatives Development	<ul style="list-style-type: none"> Completed the refinement of Citywide/Open Waters LTCP Retained Alternatives Selected the Citywide/Open Waters LTCP Recommended Plan
LTCP Preparation	<ul style="list-style-type: none"> Completed the Draft Citywide/Open Waters LTCP Recommended Plan Summary Began to draft and review Sections of the Citywide/Open Waters LTCP
Public Participation	<ul style="list-style-type: none"> Finalized responses to public comments received following the Citywide/Open Waters LTCP retained alternatives public meetings Prepared for and conducted Citywide/Open Waters LTCP Recommended Plan Public Meeting on January 29th

LTCP Development

Activity	Near-term Look Ahead
Waterbody Management	<ul style="list-style-type: none"> Continue to manage schedule for March 2020 Citywide/Open Waters LTCP Submittal Continue coordination with New Jersey (PVSC) LTCP Program
Data Collection	<ul style="list-style-type: none"> Activity completed
Modeling	<ul style="list-style-type: none"> Complete the 10-yr model runs for the Citywide/Open Waters LTCP Baseline Conditions and the Recommended Plan Complete the modeling evaluations for Citywide/Open Waters LTCP and recommended plan
Alternatives Development	<ul style="list-style-type: none"> Completed the analysis of Citywide/Open Waters LTCP retained alternatives Completed the Citywide/Open Waters LTCP Recommended Plan analysis
LTCP Preparation	<ul style="list-style-type: none"> Finalize the Citywide/Open Waters LTCP Recommended Plan Summary after receipt and review of public comments Complete drafts and reviews of Sections of the Citywide/Open Waters LTCP
Public Participation	<ul style="list-style-type: none"> Draft the Meeting Summary for Citywide/Open Waters LTCP Recommended Plan Public Meeting held January 29, 2020. Respond to public comments following Citywide/Open Waters LTCP Recommended Plan Public Meeting

Public Outreach Schedule



Schedule Milestone Status

	Sampling Program	Sampling Data to DEC	Baseline Conditions Established	Flow Monitoring	BMP Regulator Analysis	Retained Alternatives Selected	Recommended Plan Selected
Target Date	Dec 2017	Mar 2018	Apr 2018	Apr 2019	Jun 2019	Sept 2019	Jan 2020
Status							

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Citywide/Open Waters LTCP Progress

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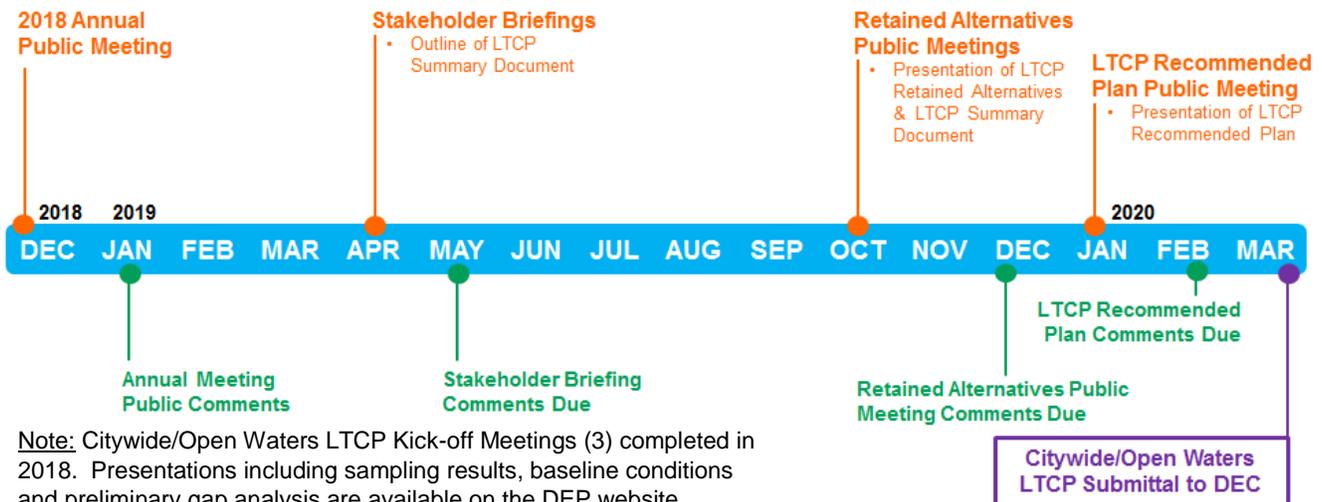
Last 30-Day Progress Highlights

Activity	January 15, 2020 Progress Highlights
Waterbody Management	<ul style="list-style-type: none"> Continued to manage schedule for March 2020 Citywide/Open Waters LTCP Submittal Continued coordination with New Jersey (PVSC) LTCP Program
Data Collection	<ul style="list-style-type: none"> Activity completed
Modeling	<ul style="list-style-type: none"> Continued to evaluate water quality bacteria and dissolved oxygen performance gap for Citywide/Open Waters LTCP Continued modeling evaluations for Citywide/Open Waters LTCP retained alternatives
Alternatives Development	<ul style="list-style-type: none"> Continued the development and evaluation of Citywide/Open Waters LTCP Retained Alternatives
LTCP Preparation	<ul style="list-style-type: none"> Continued to draft the Citywide/Open Waters LTCP Summary
Public Participation	<ul style="list-style-type: none"> Drafted responses to public comments received following the Citywide/Open Waters LTCP retained alternatives public meetings Drafted Meeting Summary for Citywide/Open Waters LTCP Harlem River Public Meeting and Citywide/Open Waters LTCP Retained Alternatives Public Meeting

LTCP Development

Activity	Near-term Look Ahead
Waterbody Management	<ul style="list-style-type: none"> Continue to manage schedule for March 2020 Citywide/Open Waters LTCP Submittal Continue coordination with New Jersey (PVSC) LTCP Program
Data Collection	<ul style="list-style-type: none"> Activity completed
Modeling	<ul style="list-style-type: none"> Complete water quality bacteria and dissolved oxygen performance gap for Citywide/Open Waters LTCP Continue modeling evaluations for Citywide/Open Waters LTCP retained alternatives and recommended plan
Alternatives Development	<ul style="list-style-type: none"> Continue refinement of Citywide/Open Waters LTCP retained alternatives Select the Citywide/Open Waters LTCP Recommended Plan
LTCP Preparation	<ul style="list-style-type: none"> Continue to draft the Citywide/Open Waters LTCP Summary
Public Participation	<ul style="list-style-type: none"> Complete Meeting Summary for Citywide/Open Waters LTCP Harlem River Public Meeting and Citywide/Open Waters LTCP Retained Alternatives Public Meeting Prepare for the Citywide/Open Waters Recommended Plan Public Meeting

Public Outreach Schedule



Schedule Milestone Status

	Sampling Program	Sampling Data to DEC	Baseline Conditions Established	Flow Monitoring	BMP Regulator Analysis	Retained Alternatives Selected	Recommended Plan Selected
Target Date	Dec 2017	Mar 2018	Apr 2018	Apr 2019	Jun 2019	Sept 2019	Jan 2020
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Citywide/Open Waters LTCP Progress

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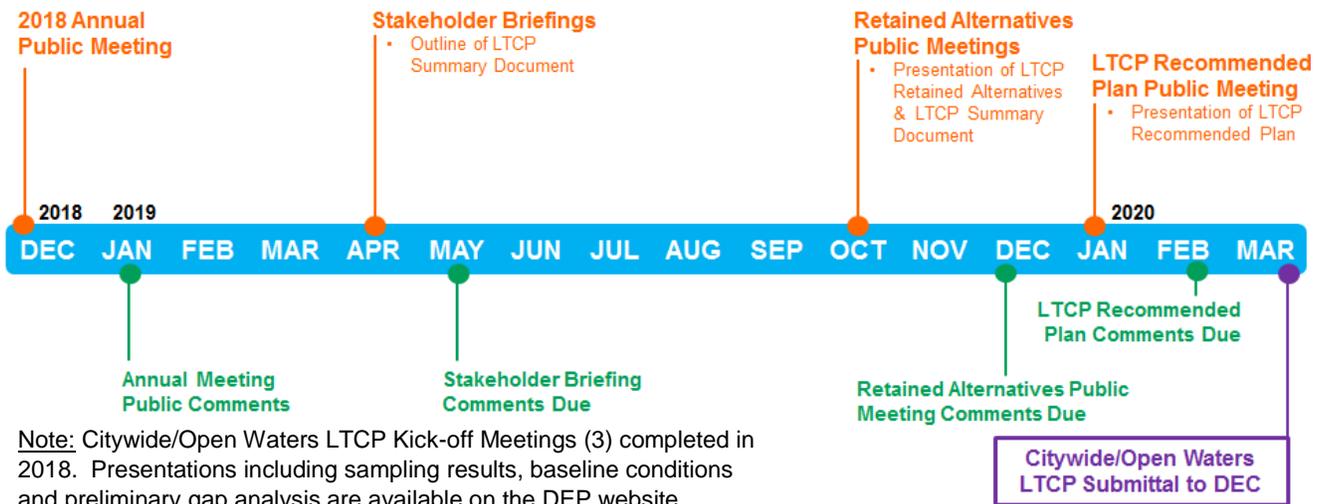
Last 30-Day Progress Highlights

Activity	December 15, 2019 Progress Highlights
Waterbody Management	<ul style="list-style-type: none"> Continued to manage schedule for March 2020 Citywide/Open Waters LTCP Submittal Continued coordination with New Jersey (PVSC) LTCP Program
Data Collection	<ul style="list-style-type: none"> Activity completed
Modeling	<ul style="list-style-type: none"> Continued modeling evaluations for Citywide/Open Waters LTCP retained alternatives
Alternatives Development	<ul style="list-style-type: none"> Continued the evaluation of Citywide/Open Waters LTCP Retained Alternatives Began the process for selecting the Citywide/Open Waters LTCP Recommended Plan
LTCP Preparation	<ul style="list-style-type: none"> Continued to draft the Citywide/Open Waters LTCP Summary Initiated the update of the CSO Program affordability analysis
Public Participation	<ul style="list-style-type: none"> Prepared a Meeting Summary for the October 2nd Citywide/Open Waters LTCP Harlem River Public Meeting Prepared a Meeting Summary for the October 15th Citywide/Open Waters LTCP Retained Alternatives Public Meeting Received Public Comments on LTCP Summary/Retained Alternatives – under review

LTCP Development

Activity	Near-term Look Ahead
Waterbody Management	<ul style="list-style-type: none"> Continue to manage schedule for March 2020 Citywide/Open Waters LTCP Submittal
Data Collection	<ul style="list-style-type: none"> Activity completed
Modeling	<ul style="list-style-type: none"> Complete modeling evaluations for Citywide/Open Waters LTCP retained alternatives
Alternatives Development	<ul style="list-style-type: none"> Continue refinement of Citywide/Open Waters LTCP retained alternatives Select the Citywide/Open Waters LTCP Recommended Plan
LTCP Preparation	<ul style="list-style-type: none"> Continue to prepare Citywide/Open Waters LTCP Summary Continue to prepare sections of the Citywide/Open Waters LTCP Complete the update to the CSO Program affordability analysis
Public Participation	<ul style="list-style-type: none"> Complete the Meeting Summary for the October 2nd Citywide/Open Waters LTCP Harlem River Public Meeting and the October 15th Citywide/Open Waters LTCP Retained Alternatives Public Meeting Prepare responses to public comments received following the Citywide/Open Waters LTCP Retained Alternatives Public meetings Prepare for the Recommended Plan meeting in January 2020

Public Outreach Schedule



Schedule Milestone Status

	Sampling Program	Sampling Data to DEC	Baseline Conditions Established	Flow Monitoring	BMP Regulator Analysis	Retained Alternatives Selected	Recommended Plan Selected
Target Date	Dec 2017	Mar 2018	Apr 2018	Apr 2019	Jun 2019	Sept 2019	Jan 2020
Status							

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Citywide/Open Waters LTCP Progress

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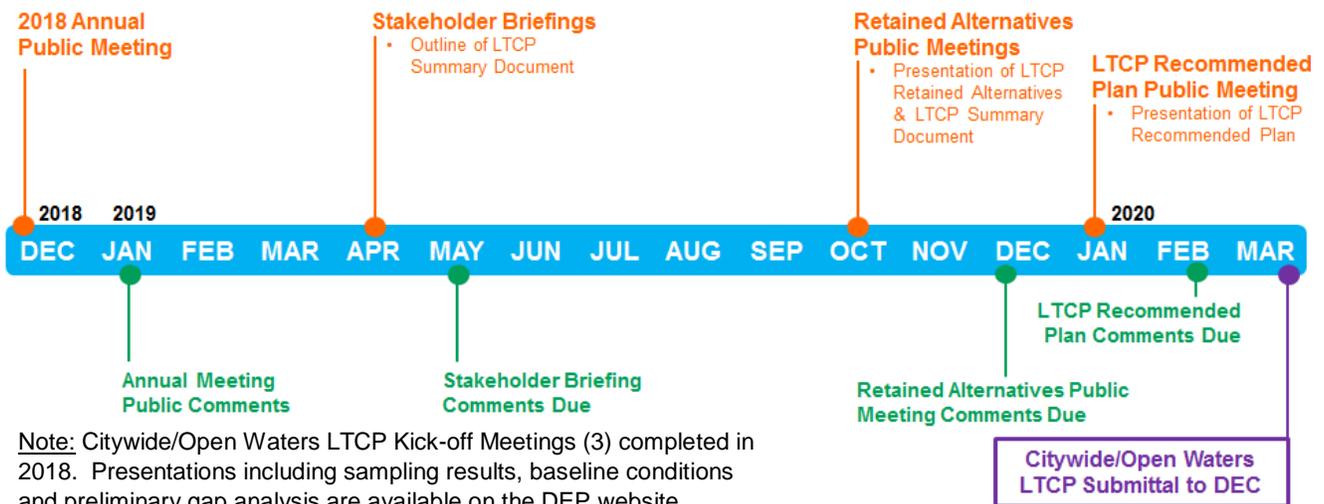
Last 30-Day Progress Highlights

Activity	November 15, 2019 Progress Highlights
Waterbody Management	<ul style="list-style-type: none"> Continued to manage schedule for March 2020 Citywide/Open Waters LTCP Submittal Continued coordination with New Jersey (PVSC) LTCP Program
Data Collection	<ul style="list-style-type: none"> Activity completed
Modeling	<ul style="list-style-type: none"> Continued to evaluate water quality bacteria and dissolved oxygen performance gap for Citywide/Open Waters LTCP Completed the Basis of Modeling Memo for Citywide/Open Waters LTCP Continued modeling evaluations for Citywide/Open Waters LTCP retained alternatives
Alternatives Development	<ul style="list-style-type: none"> Continued the development and evaluation of Citywide/Open Waters LTCP Retained Alternatives
LTCP Preparation	<ul style="list-style-type: none"> Continue to draft the LTCP Document Completed and provided LTCP Summary to the Public
Public Participation	<ul style="list-style-type: none"> Completed responses to public comments received following the Citywide/Open Waters LTCP stakeholder April meeting Conducted the October 2nd Citywide/Open Waters LTCP Harlem River Public Meeting Conducted the for October 15th Citywide/Open Waters LTCP Retained Alternatives Public Meeting

LTCP Development

Activity	Near-term Look Ahead
Waterbody Management	<ul style="list-style-type: none"> Continued to manage schedule for March 2020 Citywide/Open Waters LTCP Submittal Continued coordination with New Jersey (PVSC) LTCP Program
Data Collection	<ul style="list-style-type: none"> Activity completed
Modeling	<ul style="list-style-type: none"> Continue to evaluate water quality bacteria and dissolved oxygen performance gap for Citywide/Open Waters LTCP Continue modeling evaluations for Citywide/Open Waters LTCP retained alternatives
Alternatives Development	<ul style="list-style-type: none"> Continue refinement of Citywide/Open Waters LTCP retained alternatives Conduct DEP workshops to identify the Citywide/Open Waters LTCP Recommended Plan
LTCP Preparation	<ul style="list-style-type: none"> Continue to draft LTCP Document
Public Participation	<ul style="list-style-type: none"> Prepare Meeting Summary for Citywide/Open Waters LTCP Harlem River Public Meeting Prepare Meeting Summary for Citywide/Open Waters LTCP Retained Alternatives Public Meeting Review public comments received following the Citywide/Open Waters LTCP Retained Alternatives Public meetings Prepare for the Recommended Plan meeting in January 2020

Public Outreach Schedule



Schedule Milestone Status

	Sampling Program	Sampling Data to DEC	Baseline Conditions Established	Flow Monitoring	BMP Regulator Analysis	Retained Alternatives Selected	Recommended Plan Selected
Target Date	Dec 2017	Mar 2018	Apr 2018	Apr 2019	Jun 2019	Sept 2019	Jan 2020
Status							

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Citywide/Open Waters LTCP Progress

Consent Order Milestone for Citywide/Open Waters LTCP is March 31, 2020.

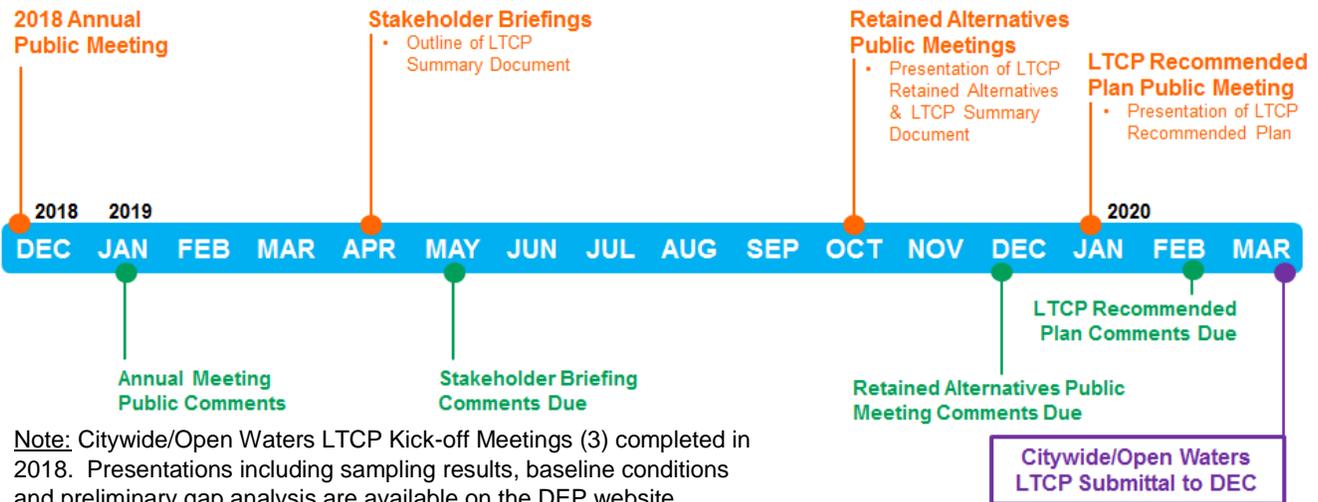
Last 30-Day Progress Highlights

Activity	October 15, 2019 Progress Highlights
Waterbody Management	<ul style="list-style-type: none"> Continued to manage schedule for March 2020 Citywide/Open Waters LTCP Submittal Continued coordination with New Jersey (PVSC) LTCP Program
Data Collection	<ul style="list-style-type: none"> Activity completed
Modeling	<ul style="list-style-type: none"> Continued to update water quality performance gap for Citywide/Open Waters LTCP Conducted dissolved oxygen baseline and 100% control model runs Continued modeling evaluations for Citywide/Open Waters LTCP retained alternatives
Alternatives Development	<ul style="list-style-type: none"> Continued the development and evaluation of Citywide/Open Waters LTCP Retained Alternatives Workshops Completed DEP Citywide/Open Waters LTCP Retained Alternatives Workshops
LTCP Preparation	<ul style="list-style-type: none"> Continued development of the LTCP Summary
Public Participation	<ul style="list-style-type: none"> Completed responses to public comments received following the Citywide/Open Waters LTCP stakeholder April meeting Prepared materials for October 2nd Citywide/Open Waters LTCP Harlem River Public Meeting Prepared materials for October 15th Citywide/Open Waters LTCP Retained Alternatives Public Meeting

LTCP Development

Activity	Projected Completion	Look Ahead
Waterbody Management	Mar 2020	<ul style="list-style-type: none"> Continued to manage schedule for March 2020 Citywide/Open Waters LTCP Submittal Continued coordination with New Jersey (PVSC) LTCP Program
Data Collection	Jun 2019	<ul style="list-style-type: none"> Activity completed
Modeling	Dec 2019	<ul style="list-style-type: none"> Complete the Basis of Modeling Memo and Water Quality and Sewer System Modeling Memo for Citywide/Open Waters LTCP Continue bacteria loadings and time to recovery for Citywide/Open Waters LTCP Continue to update water quality bacteria and dissolved oxygen performance gap for Citywide/Open Waters LTCP Continue modeling evaluations for Citywide/Open Waters LTCP retained alternatives
Alternatives Development	Jan 2020	<ul style="list-style-type: none"> Continue the development and evaluation of Citywide/Open Waters LTCP retained alternatives Conduct DEP public meetings and DEP workshops to identify the Citywide/Open Waters LTCP Recommended Plan
LTCP Preparation	Mar 2020	<ul style="list-style-type: none"> Release to the Public a Draft LTCP Summary document
Public Participation	Mar 2020	<ul style="list-style-type: none"> Review any public comments received following the Citywide/Open Waters LTCP stakeholder October meeting and begin to prepare responses Prepare for the Recommended Plan meeting in January 2020

Public Outreach Schedule



Schedule Milestone Status

	Sampling Program	Sampling Data to DEC	Baseline Conditions Established	Flow Monitoring	BMP Regulator Analysis	Retained Alternatives Selected	Recommended Plan Selected
Target Date	Dec 2017	Mar 2018	Apr 2018	Apr 2019	Jun 2019	Sept 2019	Jan 2020
Status							

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Citywide/Open Waters LTCP Progress

The Consent Order Milestone for submittal of the Citywide/Open Waters LTCP is March 31, 2020.

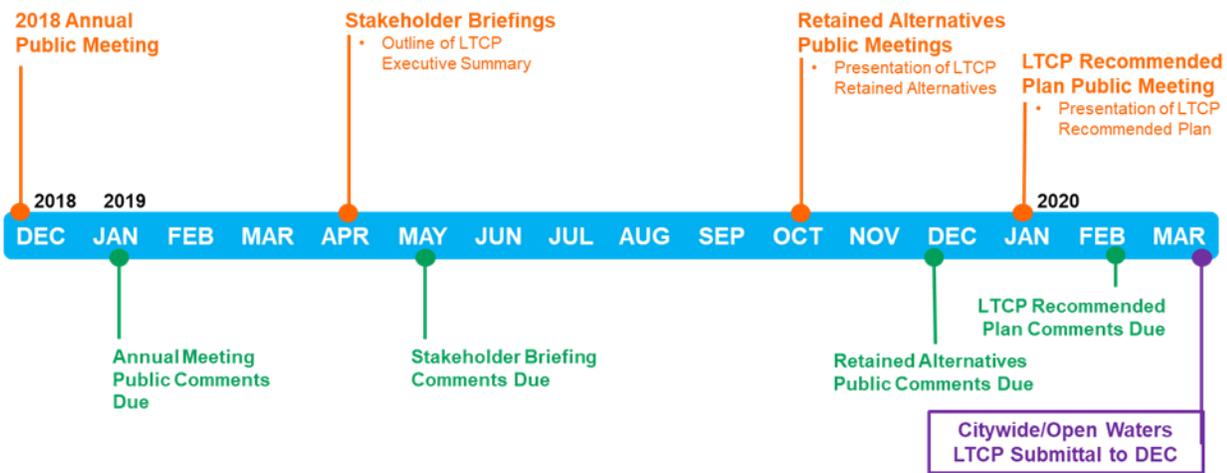
Last 30-Day Progress Highlights

Activity	September 15, 2019 Progress Highlights
Waterbody Management	<ul style="list-style-type: none"> Continued to manage schedule for March 2020 Citywide/Open Waters LTCP Submittal Continued coordination with New Jersey (PVSC) LTCP Program
Data Collection	<ul style="list-style-type: none"> Activity completed
Modeling	<ul style="list-style-type: none"> Completed Optimatics modeling software coordination Completed sewershed optimization model runs for Citywide/Open Waters LTCP Completed 10-year WQ Baseline and 100% CSO Capture bacteria model runs Updated water quality performance gap for Citywide/Open Waters LTCP
Alternatives Development	<ul style="list-style-type: none"> Continued the development and evaluation of CSO Control alternatives Continued the development and evaluation of sewer system optimization alternatives Conducted initial DEP Citywide/Open Waters LTCP Retained Alternatives Workshop
LTCP Preparation	<ul style="list-style-type: none"> Continued development of the LTCP Summary document
Public Participation	<ul style="list-style-type: none"> Continued to develop responses to public comments received following the Citywide/Open Waters LTCP stakeholder meeting

LTCP Development

Activity	Projected Completion	Look Ahead
Waterbody Management	Mar 2020	<ul style="list-style-type: none"> Continued to manage schedule for March 2020 Citywide/Open Waters LTCP Submittal Continued coordination with New Jersey (PVSC) LTCP Program
Data Collection	Jun 2019	<ul style="list-style-type: none"> Activity completed
Modeling	Dec 2019	<ul style="list-style-type: none"> Complete the Basis of Modeling Memo and Water Quality and Sewer System Modeling Memo for Citywide/Open Waters LTCP Continue bacteria loadings and time to recovery for Citywide/Open Waters LTCP Conduct dissolved oxygen baseline and 100% control model runs
Alternatives Development	Jan 2020	<ul style="list-style-type: none"> Continue the development and evaluation of CSO Control alternatives Continue the development and evaluation of sewer system optimization alternatives
LTCP Preparation	Mar 2020	<ul style="list-style-type: none"> Release to the Public a Draft LTCP Summary document
Public Participation	Mar 2020	<ul style="list-style-type: none"> Complete responses to public comments received following the Citywide/Open Waters LTCP stakeholder meeting Prepare for LTCP Public Meeting

Public Outreach Schedule



Note: Citywide/Open Waters LTCP Kick-off Meetings (3) completed in 2018. Presentations including sampling results, baseline conditions and preliminary gap analysis are available on the DEP website.

Schedule Milestone Status

	Sampling Program	Sampling Data to DEC	Baseline Conditions Established	Flow Monitoring	BMP Regulator Analysis	Retained Alternatives Selected	Recommended Plan Selected
Target Date	Dec 2017	Mar 2018	Apr 2018	Apr 2019	Jun 2019	Sept 2019	Jan 2020
Status							

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Citywide/Open Waters LTCP Progress

Consent Order Milestone for Citywide/Open Waters LTCP is March 31, 2020.

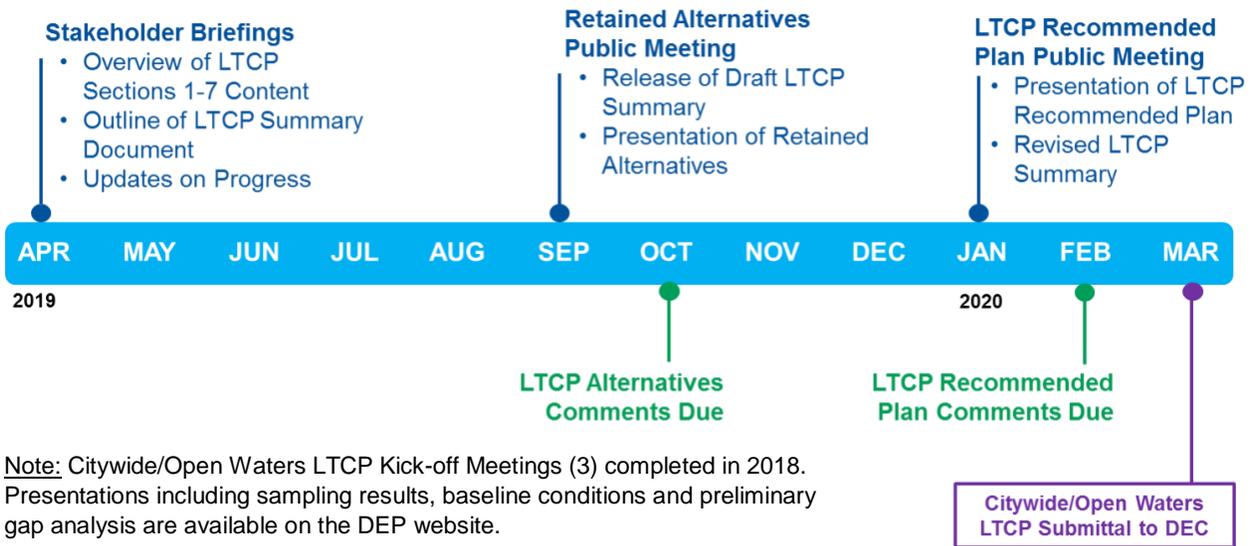
Last 30-Day Progress Highlights

Activity	August 15, 2019 Progress Highlights
Waterbody Management	<ul style="list-style-type: none"> Continued to manage schedule for March 2020 Citywide/Open Waters LTCP Submittal Continued coordination with New Jersey (PVSC) LTCP Program
Data Collection	<ul style="list-style-type: none"> Activity completed
Modeling	<ul style="list-style-type: none"> Completed Optimatics modeling software coordination Completed sewershed optimization model runs for Citywide/Open Waters LTCP Completed 10-year WQ Baseline and 100% CSO Capture bacteria model runs Updated water quality performance gap for Citywide/Open Waters LTCP
Alternatives Development	<ul style="list-style-type: none"> Continued the development and evaluation of CSO Control alternatives Continued the development and evaluation of sewer system optimization alternatives Conducted initial DEP Citywide/Open Waters LTCP Retained Alternatives Workshop
Public Participation	<ul style="list-style-type: none"> Continued to develop responses to public comments received following the Citywide/Open Waters LTCP stakeholder meeting

LTCP Development

Activity	Projected Completion	Status
Waterbody Management	Mar 2020	<ul style="list-style-type: none"> Continued to manage schedule for March 2020 Citywide/Open Waters LTCP Submittal Continued coordination with New Jersey (PVSC) LTCP Program
Data Collection	Jun 2019	<ul style="list-style-type: none"> Activity completed
Modeling	Dec 2019	<ul style="list-style-type: none"> Complete the Basis of Modeling Memo for Citywide/Open Waters LTCP Continue bacteria loadings and time to recovery for Citywide/Open Waters LTCP Conduct dissolved oxygen baseline and 100% control model runs
Alternatives Development	Jan 2020	<ul style="list-style-type: none"> Continue the development and evaluation of CSO Control alternatives Continue the development and evaluation of sewer system optimization alternatives Continue to conduct DEP Citywide/Open Waters LTCP Retained Alternatives Workshop
Public Participation	Mar 2020	<ul style="list-style-type: none"> Complete responses to public comments received following the Citywide/Open Waters LTCP stakeholder meeting Prepare for Citywide/Open Waters LTCP Retained Alternatives Public Meeting

Public Outreach Schedule



Schedule Milestone Status

	Sampling Program	Sampling Data to DEC	Baseline Conditions Established	Flow Monitoring	BMP Regulator Analysis	Retained Alternatives Selected	Recommended Plan Selected
Target Date	Dec 2017	Mar 2018	Apr 2018	Apr 2019	Jun 2019	Aug 2019	Jan 2020
Status							

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Citywide/Open Waters LTCP Progress

Consent Order Milestone for Citywide/Open Waters LTCP is March 31, 2020.

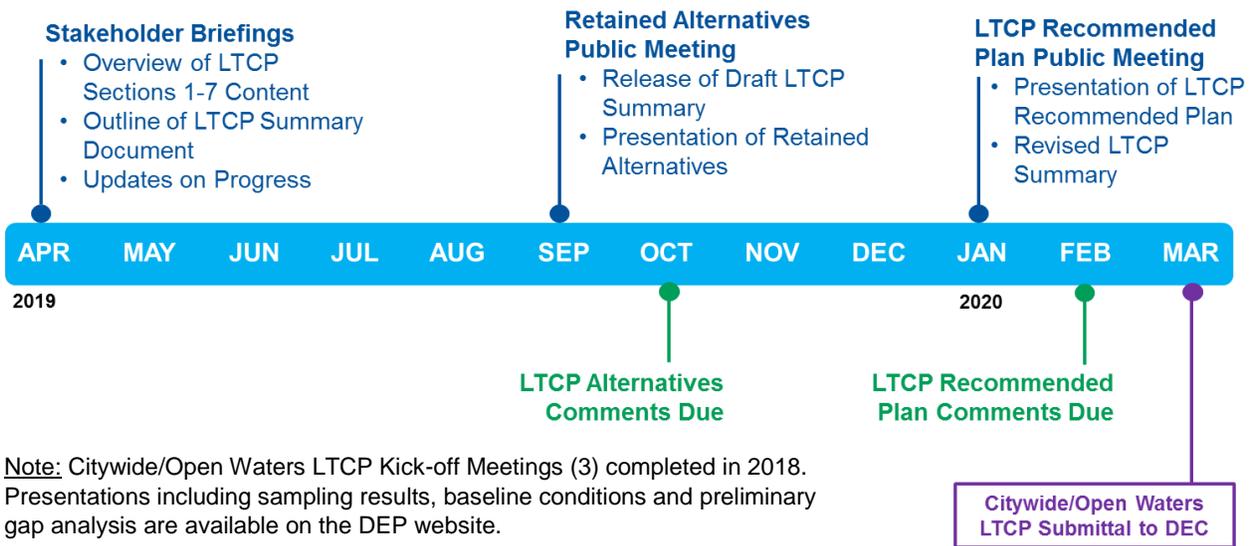
Last 30-Day Progress Highlights

Activity	July 15, 2019 Progress Highlights
Waterbody Management	<ul style="list-style-type: none"> Continued to manage schedule for March 2020 Citywide/Open Waters LTCP Submittal Continued coordination with New Jersey (PVSC) LTCP Program
Data Collection	<ul style="list-style-type: none"> Complete review of BMP regulator flow monitoring data
Modeling	<ul style="list-style-type: none"> Continued Optimatics modeling software coordination Generated 10-yr CSO volume and frequency from ICM model results Continued to advance the Basis of Modeling Memo for Citywide/Open Waters LTCP Continued 10-year WQ Baseline and 100% CSO Capture model runs
Alternatives Development	<ul style="list-style-type: none"> Continued the development and evaluation of CSO Control alternatives Continued sewer system optimization alternative model runs and analysis Completed DEP BMP regulator optimization alternatives workshops Initiated preparation for DEP Citywide/Open Waters LTCP Retained Alternatives Workshop
Public Participation	<ul style="list-style-type: none"> Continued to develop responses to public comments received following the Citywide/Open Waters LTCP stakeholder meeting

LTCP Development

Activity	Projected Completion	Status
Waterbody Management	Mar 2020	<ul style="list-style-type: none"> Continue to manage delivery schedule for Citywide/Open Waters LTCP Mar 2020 Submittal Continue coordination with New Jersey (PVSC) LTCP Program
Data Collection	Jun 2019	<ul style="list-style-type: none"> Activity Completed
Modeling	Dec 2019	<ul style="list-style-type: none"> Continue Optimatics modeling software coordination Finalize the Basis of Modeling Memo for Citywide/Open Waters LTCP Complete 10-year WQ Baseline and 100% CSO Capture model runs Update performance gap, bacteria loadings and time to recovery
Alternatives Development	Jan 2020	<ul style="list-style-type: none"> Continue development and evaluation of CSO control alternatives Complete sewer system optimization alternative model runs and analysis Conduct DEP Citywide/Open Waters LTCP Retained Alternatives Workshop
Public Participation	Mar 2020	<ul style="list-style-type: none"> Complete responses to public comments received following the Citywide/Open Waters LTCP stakeholder meeting Prepare for Citywide/Open Waters LTCP Retained Alternatives Public Meeting

Public Outreach Schedule



Schedule Milestone Status

	Sampling Program	Sampling Data to DEC	Baseline Conditions Established	Flow Monitoring	BMP Regulator Analysis	Retained Alternatives Selected	Recommended Plan Selected
Target Date	Dec 2017	Mar 2018	Apr 2018	Apr 2019	Jun 2019	Aug 2019	Jan 2020
Status							

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Citywide/Open Waters LTCP Progress

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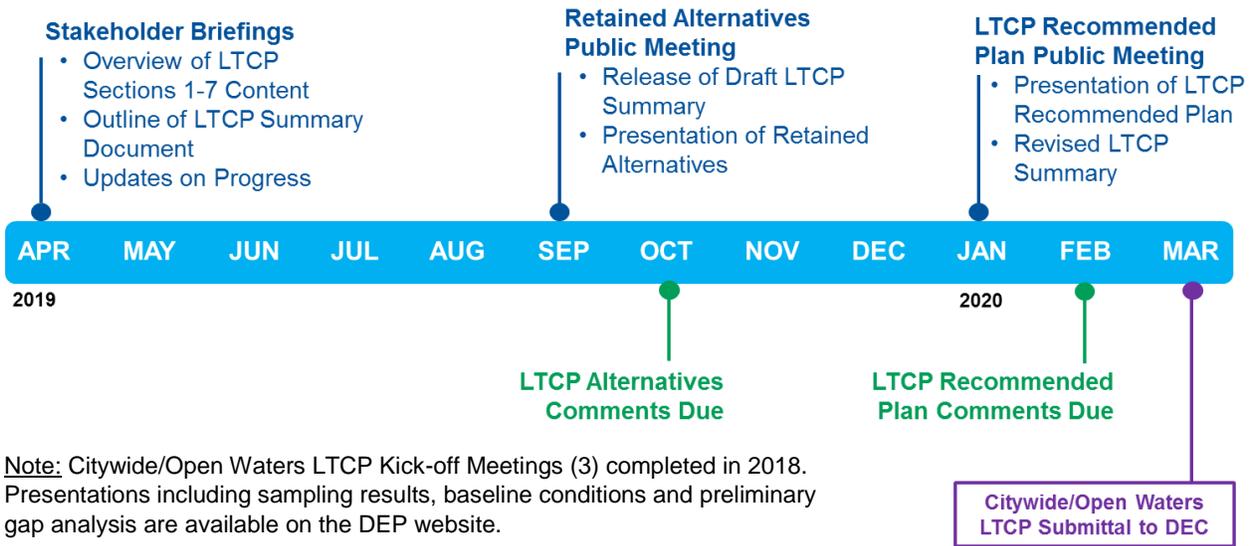
Last 30-Day Progress Highlights

Activity	June 15, 2019 Progress Highlights
Waterbody Management	<ul style="list-style-type: none"> Continued to manage schedule for March 2020 Citywide/Open Waters LTCP Submittal Continued coordination with New Jersey (PVSC) LTCP Program
Data Collection	<ul style="list-style-type: none"> Received all final BMP regulator flow monitoring data Reviewed final BMP regulator flow monitoring data
Modeling	<ul style="list-style-type: none"> Continued Optomatics modeling software coordination Completed ICM model calibration based on initial BMP Regulator flow data Continued to advance the Basis of Modeling Memo for Citywide/Open Waters LTCP Initiated 10-year WQ Baseline model runs for Citywide/Open Waters LTCP
Alternatives Development	<ul style="list-style-type: none"> Continued the development and evaluation of CSO Control alternatives Continued sewer system optimization alternative model runs Continued DEP BMP regulator optimization alternatives workshops
Public Participation	<ul style="list-style-type: none"> Conducted April 16th Citywide/Open Waters LTCP stakeholder meeting Reviewed Meeting Summary for Citywide/Open Waters LTCP stakeholder meeting Continued to develop responses to public comments

LTCP Development

Activity	Projected Completion	Status
Waterbody Management	Mar 2020	<ul style="list-style-type: none"> Continue to manage delivery schedule for Citywide/Open Waters LTCP Mar 2020 Submittal Continue coordination with New Jersey (PVSC) LTCP Program
Data Collection	Jun 2019	<ul style="list-style-type: none"> Complete review of BMP regulator flow monitoring data
Modeling	Dec 2019	<ul style="list-style-type: none"> Continue Optimatics modeling software coordination Finalize the Basis of Modeling Memo for Citywide/Open Waters LTCP Complete 10-year WQ Baseline model runs for Citywide/Open Waters LTCP Update performance gap for Citywide/Open Waters LTCP
Alternatives Development	Jan 2020	<ul style="list-style-type: none"> Continue development and evaluation of CSO control alternatives Continue sewer system optimization alternative model runs Complete DEP BMP regulator optimization alternatives workshops Conduct DEP CSO alternatives workshops
Public Participation	Mar 2020	<ul style="list-style-type: none"> Complete Meeting Summary for Citywide/Open Waters LTCP stakeholder meeting Preparing responses to April 16th Citywide/Open Waters LTCP stakeholder meeting public comments

Public Outreach Schedule



Schedule Milestone Status

	Sampling Program	Sampling Data to DEC	Baseline Conditions Established	Flow Monitoring	BMP Regulator Analysis	Retained Alternatives Selected	Recommended Plan Selected
Target Date	Dec 2017	Mar 2018	Apr 2018	Apr 2019	Jun 2019	Aug 2019	Jan 2020
Status							

LEGEND: = Completed = Under DEP Review = In Progress = Not Initiated



Citywide/Open Waters LTCP Progress

Consent Order Milestone for Citywide/Open Waters LTCP is March 31, 2020.

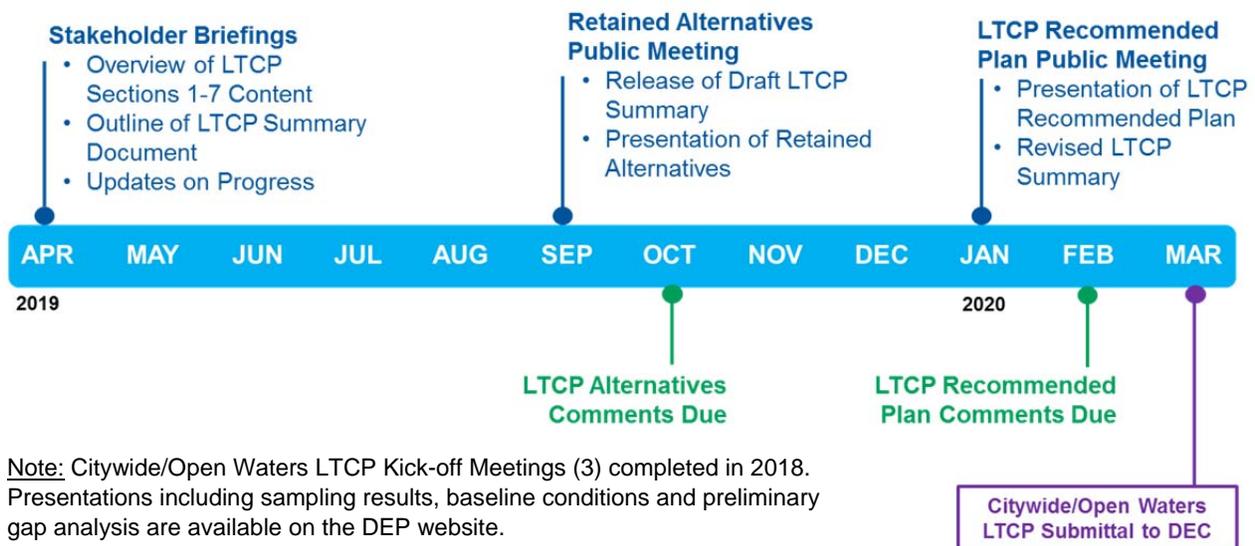
Last 30-Day Progress Highlights

Activity	May 15, 2019 Progress Highlights
Waterbody Management	<ul style="list-style-type: none"> Continued to manage schedule for March 2020 Citywide/Open Waters LTCP Submittal Continued coordination with New Jersey (PVSC) LTCP Program
Data Collection	<ul style="list-style-type: none"> Continued to review preliminary BMP regulator flow data Continued to review WRRF Flow Data and Regulator SCADA Data
Modeling	<ul style="list-style-type: none"> Continued updating ICM model calibration based on BMP Regulator flow data Continued to advance the Basis of Modeling Memo for Citywide/Open Waters LTCP Continued to develop 10-year WQ Baseline model runs for Citywide/Open Waters LTCP
Alternatives Development	<ul style="list-style-type: none"> Continued the development and evaluation of CSO Control alternatives Continued sewer system optimization alternative model runs Initiated DEP BMP regulator optimization alternatives workshops
Public Participation	<ul style="list-style-type: none"> Conducted April 16th Citywide/Open Waters LTCP stakeholder meeting Began preparing Meeting Summary for Citywide/Open Waters LTCP stakeholder meeting Began drafting responses to public comments

LTCP Development

Activity	Projected Completion	Status
Waterbody Management	Mar 2020	<ul style="list-style-type: none"> Continue to manage delivery schedule for Citywide/Open Waters LTCP Mar 2020 Submittal Continue coordination with New Jersey (PVSC) LTCP Program
Data Collection	Jun 2019	<ul style="list-style-type: none"> Receive all final BMP regulator flow monitoring data Complete review of BMP regulator flow monitoring data
Modeling	Dec 2019	<ul style="list-style-type: none"> Continue Optimatics modeling software coordination Finalize ICM model calibration based on BMP Regulator flow data Finalize the Basis of Modeling Memo for Citywide/Open Waters LTCP Complete 10-year WQ Baseline model runs for Citywide/Open Waters LTCP Update performance gap for Citywide/Open Waters LTCP
Alternatives Development	Jan 2020	<ul style="list-style-type: none"> Continue development and evaluation of CSO control alternatives Continue sewer system optimization alternative model runs Conduct DEP CSO alternatives workshops Conduct DEP BMP regulator optimization alternatives workshops
Public Participation	Mar 2020	<ul style="list-style-type: none"> Complete Meeting Summary for Citywide/Open Waters LTCP stakeholder meeting Preparing responses to April 16th Citywide/Open Waters LTCP stakeholder meeting public comments

Public Outreach Schedule



Note: Citywide/Open Waters LTCP Kick-off Meetings (3) completed in 2018. Presentations including sampling results, baseline conditions and preliminary gap analysis are available on the DEP website.

Schedule Milestone Status

	Sampling Program	Sampling Data to DEC	Baseline Conditions Established	Flow Monitoring	BMP Regulator Analysis	Retained Alternatives Selected	Recommended Plan Selected
Target Date	Dec 2017	Mar 2018	Apr 2018	Apr 2019	Jun 2019	Aug 2019	Jan 2020
Status							

LEGEND: = Completed = Under DEP Review = In Progress = Not Initiated



Citywide/Open Waters LTCP Progress

Consent Order Milestone for Citywide/Open Waters LTCP is March 31, 2020.

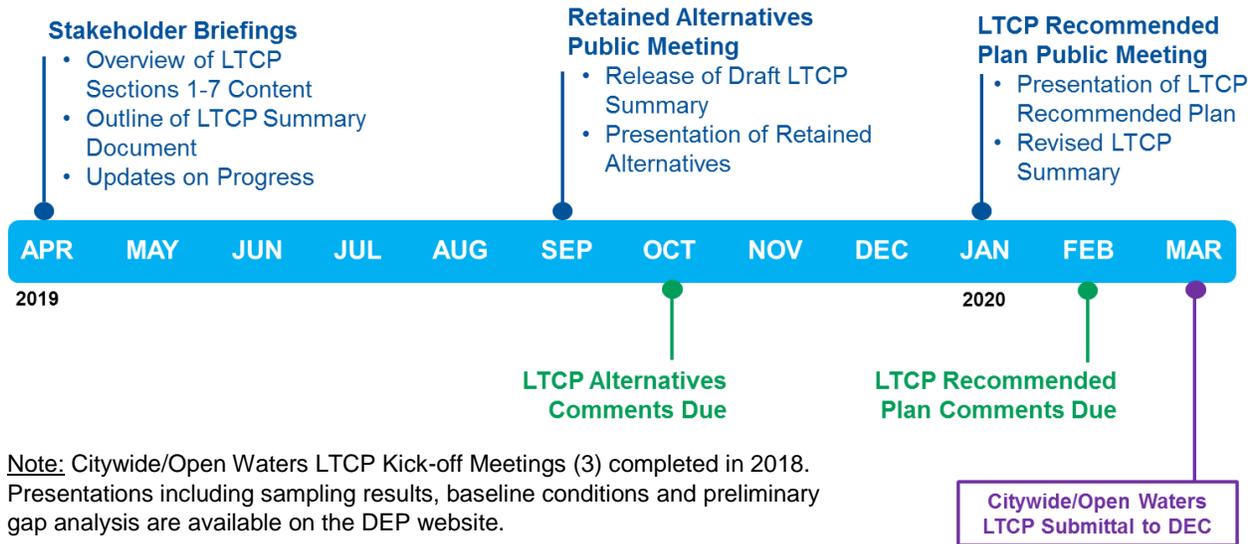
Last 30-Day Progress Highlights

Activity	April 15, 2019 Progress Highlights
Waterbody Management	<ul style="list-style-type: none"> Continued to manage schedule for March 2020 Citywide/Open Waters LTCP Submittal Continued coordination with New Jersey (PVSC) LTCP Program
Data Collection	<ul style="list-style-type: none"> Finalized Data Analysis Memos for additional flow monitoring data Completed BMP regulator flow monitoring Continued to review preliminary BMP regulator flow data Continued to review WRRF Flow Data and Regulator SCADA Data
Modeling	<ul style="list-style-type: none"> Continued to develop Basis of Modeling Memo for Citywide/Open Waters LTCP Performed WQ Baseline Condition model runs for Citywide/Open Waters LTCP Continued coordination with Optimatics regarding system optimization modeling software
Alternatives Development	<ul style="list-style-type: none"> Continued initial screening of CSO alternatives Conducted software training for BMP regulator optimization alternatives Initiated sewer system optimization alternative model runs
Public Participation	<ul style="list-style-type: none"> Advertised for April 16th Citywide/Open Waters LTCP stakeholder meeting Prepared materials for April 16th Citywide/Open Waters LTCP stakeholder meeting

LTCP Development

Activity	Projected Completion	Status
Waterbody Management	Mar 2020	<ul style="list-style-type: none"> Continue to manage delivery schedule for Citywide/Open Waters LTCP Mar 2020 Submittal Continue coordination with New Jersey (PVSC) LTCP Program
Data Collection	Apr 2019	<ul style="list-style-type: none"> Continue flow monitoring coordination with ADS Review BMP regulator flow monitoring data
Modeling	Dec 2019	<ul style="list-style-type: none"> Finalize WQ baseline conditions model for Citywide/Open Waters LTCP Update performance gap for Citywide/Open Waters LTCP Continue Optomatics modeling software coordination
Alternatives Development	Jan 2020	<ul style="list-style-type: none"> Continue screening and development of CSO alternatives Perform BMP regulator optimization alternative evaluations Conduct DEP CSO alternatives workshops
Public Participation	Mar 2020	<ul style="list-style-type: none"> Conduct April 16th Citywide/Open Waters LTCP stakeholder meeting

Public Outreach Schedule



Schedule Milestone Status

	Sampling Program	Sampling Data to DEC	Baseline Conditions Established	Flow Monitoring	BMP Regulator Analysis	Retained Alternatives Selected	Recommended Plan Selected
Target Date	Dec 2017	Mar 2018	Apr 2018	Apr 2019	Jun 2019	Aug 2019	Jan 2020
Status							

LEGEND: = Completed = Under DEP Review = In Progress = Not Initiated



Citywide/Open Waters LTCP Progress

Consent Order Milestone for Citywide/Open Waters LTCP is December 31, 2018.

DEC approved the Modification Request for Milestone Extension from December 31, 2018 to March 31, 2020.

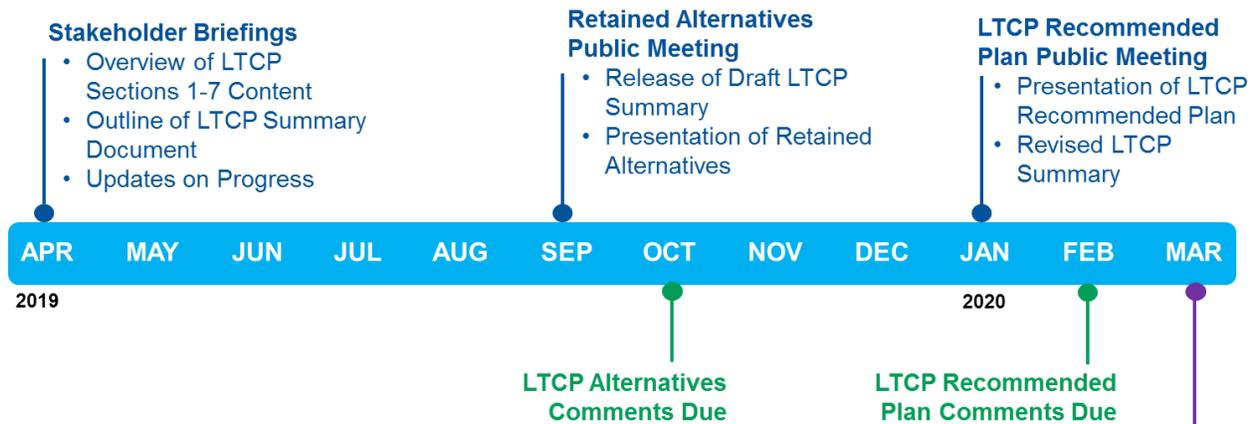
Last 30-Day Progress Highlights

Activity	March 15, 2019 Progress Highlights
Waterbody Management	<ul style="list-style-type: none"> • Received DEC approval of Modification Request for March 2020 Milestone Extension • Updated schedule to reflect March 2020 Citywide/Open Waters LTCP Submittal • Continued coordination with New Jersey (PVSC) LTCP Program
Data Collection	<ul style="list-style-type: none"> • Updated Data Analysis Memos for additional flow monitoring data • Continued BMP regulator flow monitoring • Continued to review preliminary BMP regulator flow data • Continued to review WRRF Flow Data and Regulator SCADA Data
Modeling	<ul style="list-style-type: none"> • Continued to develop of Basis of Modeling Memo for Citywide/Open Waters LTCP • Performed WQ Baseline Condition model runs for Citywide/Open Waters LTCP • Continued coordination with Optimatics regarding system optimization modeling software
Alternatives Development	<ul style="list-style-type: none"> • Continued initial screening of CSO alternatives • Scheduled software training for BMP regulator optimization alternatives
Public Participation	<ul style="list-style-type: none"> • Initiated planning for stakeholder meeting for the week of April 15th

LTCP Development

Activity	Projected Completion	Status
Waterbody Management	Mar 2020	<ul style="list-style-type: none"> Continue to track delivery schedule for Citywide/Open Waters LTCP Mar 2020 Submittal Continue coordination with New Jersey (PVSC) LTCP Program
Data Collection	Apr 2019	<ul style="list-style-type: none"> Continue flow monitoring coordination with ADS Continue reviews of BMP regulator flow data Finalize Data Analysis Memos for Citywide/Open Waters LTCP
Modeling	Dec 2019	<ul style="list-style-type: none"> Continue WQ model baseline conditions model for Citywide/Open Waters LTCP Complete baseline conditions ICM model for Citywide/Open Waters LTCP Update performance gap for Citywide/Open Waters LTCP Continue Optimatics modeling software coordination
Alternatives Development	Jan 2020	<ul style="list-style-type: none"> Continue initial screening of CSO alternatives Conduct BMP regulator optimization alternative evaluations
Public Participation	Mar 2020	<ul style="list-style-type: none"> Schedule stakeholder meeting for the week of April 15th Prepare materials for stakeholder meetings

Public Outreach Schedule



Note: Citywide/Open Waters LTCP Kick-off Meetings (3) completed in 2018. Presentations including sampling results, baseline conditions and preliminary gap analysis are available on the DEP website.

Schedule Milestone Status

	Sampling Program	Sampling Data to DEC	Baseline Conditions Established	Flow Monitoring	BMP Regulator Analysis	Retained Alternatives Selected	Recommended Plan Selected
Target Date	Dec 2017	Mar 2018	Apr 2018	Apr 2019	Jun 2019	Aug 2019	Jan 2020
Status							

LEGEND: = Completed = Under DEP Review = In Progress = Not Initiated



Citywide/Open Waters LTCP Progress

Consent Order Milestone for Citywide/Open Waters LTCP is March 31, 2020.

Last 30-Day Progress Highlights

Activity	February 15, 2019 Progress Highlights
Waterbody Management	<ul style="list-style-type: none"> • Received DEC approval of modification of LTCP submittal milestone to March 2020 • Updated schedule to reflect March 2020 Citywide/Open Waters LTCP submittal • Continued coordination with New Jersey (PVSC) LTCP Program
Data Collection	<ul style="list-style-type: none"> • Completed installation of BMP regulator flow monitoring equipment • Received preliminary BMP regulator flow data • Continued to review WRRF Flow Data and Regulator Telemetry Data
Modeling	<ul style="list-style-type: none"> • Drafted Basis of Modeling Memo • Conducted 10-year ICM Baseline Condition model runs • Completed WQ model calibration effort for Citywide/Open Waters LTCP • Continued coordination with Optimatics regarding system optimization modeling software
Alternatives Development	<ul style="list-style-type: none"> • Continued initial screening of potential LTCP alternatives
Public Participation	<ul style="list-style-type: none"> • Drafted 2018 Annual Public Meeting Summary and Audio/Video

LTCP Development

Activity	Projected Completion	Status
Waterbody Management	Mar 2020	<ul style="list-style-type: none"> Continue to track delivery schedule for Citywide/Open Waters LTCP Mar 2020 Submittal Continue coordination with New Jersey (PVSC) LTCP Program
Data Collection	Apr 2019	<ul style="list-style-type: none"> Continue flow monitoring coordination with ADS Finalize Data Analysis Memos for Citywide/Open Waters LTCP
Modeling	Dec 2019	<ul style="list-style-type: none"> Initiate WQ model baseline conditions model for Citywide/Open Waters LTCP Complete baseline conditions ICM model for Citywide/Open Waters LTCP Update performance gap for Citywide/Open Waters LTCP Continue Optimatics modeling software coordination
Alternatives Development	Jan 2020	<ul style="list-style-type: none"> Continue initial screening of potential LTCP alternatives
Public Participation	Mar 2020	<ul style="list-style-type: none"> Prepare for stakeholder meetings

Public Outreach Schedule



Note: Citywide/Open Waters LTCP Kick-off Meetings (3) completed in 2018. Presentations including sampling results, baseline conditions and preliminary gap analysis are available on the DEP website.

Schedule Milestone Status

	Sampling Program	Sampling Data to DEC	Baseline Conditions Established	Flow Monitoring	BMP Regulator Analysis	Retained Alternatives Selected	Recommended Plan Selected
Target Date	Dec 2017	Mar 2018	Apr 2018	Apr 2019	Jun 2019	Aug 2019	Jan 2020
Status							

LEGEND: = Completed = Under DEP Review = In Progress = Not Initiated



Citywide/Open Waters LTCP Progress

Consent Order Milestone for Citywide/Open Waters LTCP is December 31, 2018.

DEC approved the Modification Request for Milestone Extension from December 31, 2018 to March 31, 2020.

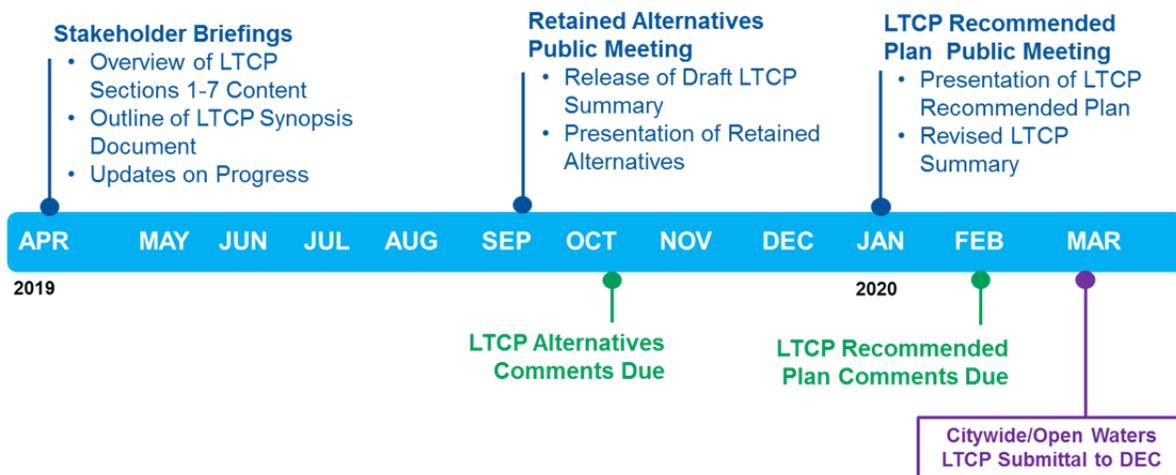
Last 30-Day Progress Highlights

Activity	January 15, 2019 Progress Highlights
Waterbody Management	<ul style="list-style-type: none"> • Responded to DEC's Modification Request for Milestone Extension Letter • Updated schedule to reflect March 2020 Citywide/Open Waters LTCP Submittal • Continued coordination with New Jersey (PVSC) LTCP Program
Data Collection	<ul style="list-style-type: none"> • Developed BMP Regulator spreadsheet analysis tool • Continued coordination calls with ADS to review status of flow monitoring equipment • Completed installation of BMP regulator flow monitoring equipment • Received WRRF Flow Data and Regulator SCADA Data
Modeling	<ul style="list-style-type: none"> • Completed Existing Condition IW model calibration for Citywide/Open Waters LTCP • Completed model conversion from IWCS to ICM • Received PVSC 10-yr Model runs with JFK Rainfall • Completed modifications of water quality model inputs to fit new grid and incorporate NYC and NJ calibrated models • Initiated coordination with Optimatics regarding system optimization modeling software
Alternatives Development	<ul style="list-style-type: none"> • Continued Preliminary Tibbetts Brook Feasibility Analysis • Continued initial screening of CSO alternatives
Public Participation	<ul style="list-style-type: none"> • Updated schedule for CW/OW LTCP Public Outreach • Conducted 2018 Annual Public Meeting

LTCP Development

Activity	Projected Completion	Status
Waterbody Management	Mar 2020	<ul style="list-style-type: none"> Continue to track delivery schedule for Citywide/Open Waters LTCP Mar 2020 Submittal Continue coordination with New Jersey (PVSC) LTCP Program
Data Collection	Apr 2019	<ul style="list-style-type: none"> Continue flow monitoring coordination with ADS Finalize Data Analysis Memos for Citywide/Open Waters LTCP
Modeling	Dec 2019	<ul style="list-style-type: none"> Finalize WQ model calibration effort for Citywide/Open Waters LTCP Prepare baseline conditions ICM model Update performance gap for Citywide/Open Waters LTCP Draft Basis of Modeling Memo for the Citywide/Open Waters LTCP Continue Optimatics modeling software coordination
Alternatives Development	Jan 2020	<ul style="list-style-type: none"> Continue Tibbetts Brook Feasibility Analysis Continue initial screening of CSO alternatives
Public Participation	Mar 2020	<ul style="list-style-type: none"> Provide 2018 Annual Citywide Meeting Summary and Video

Public Outreach Schedule



Schedule Milestone Status

	Sampling Program	Sampling Data to DEC	Baseline Conditions Established	Flow Monitoring	BMP Regulator Analysis	Retained Alternatives Selected	Recommended Plan Selected
Target Date	Dec 2017	Mar 2018	Apr 2018	Apr 2019	Jun 2019	Aug 2019	Jan 2020
Status							

LEGEND: = Completed = Under DEP Review = In Progress = Not Initiated